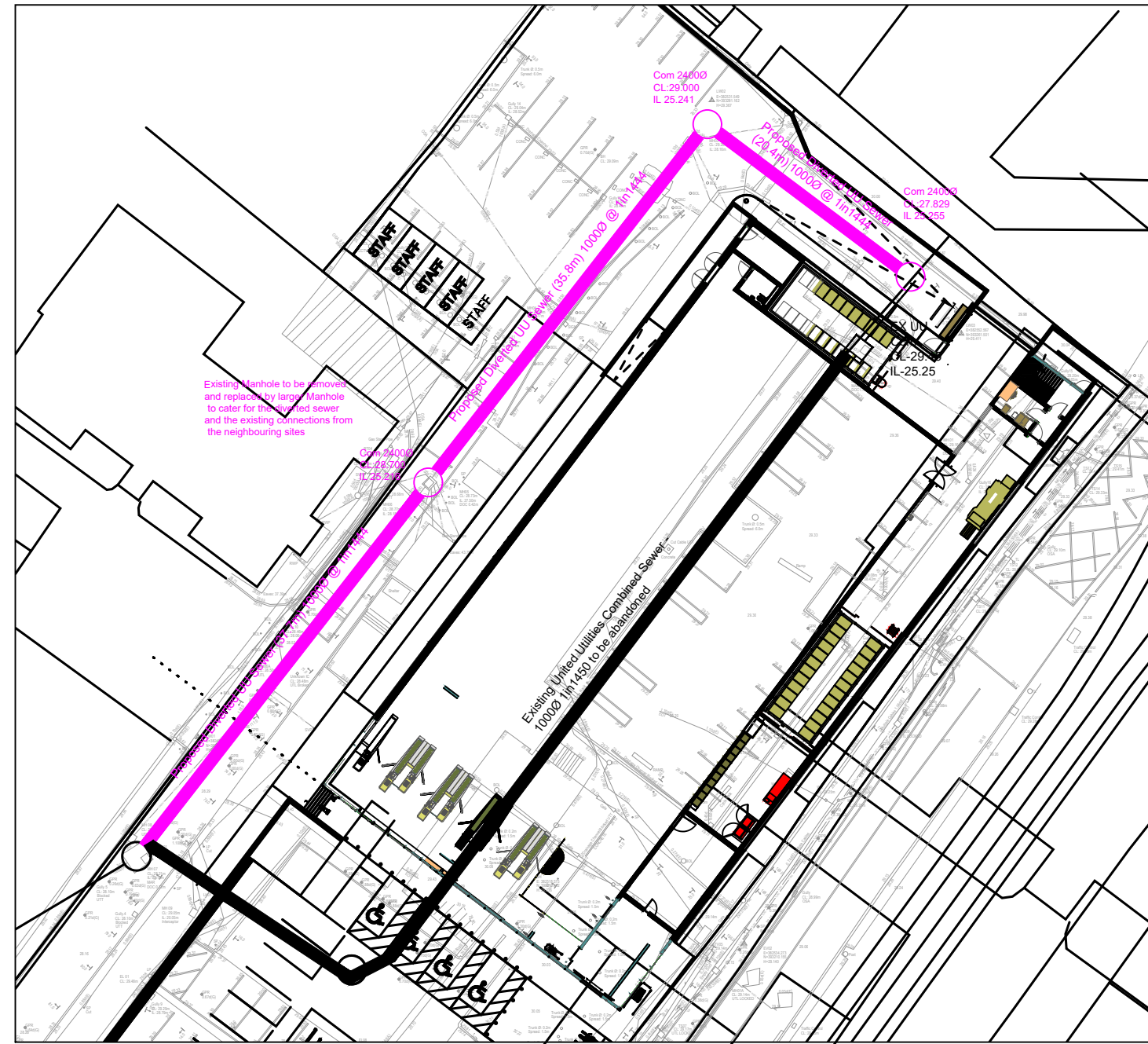
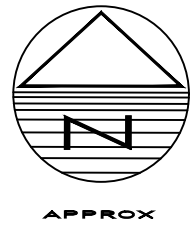




Proposed Diversion Plan (1:1000)

Sewer diversion is subject to a S185 agreement with United Utilities

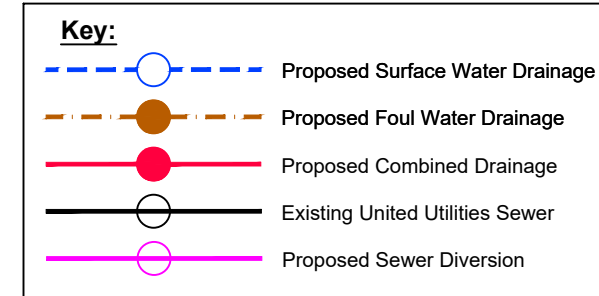
New connection onto the existing UU manhole, subject to a S106 agreement. IL:26.040

EX UU
Com
CL-28.10
IL-25.19
IL-26.04 (1500)

Existing United Utilities Combined Sewer - 1000Ø

Proposed Drainage Strategy (1:250)

RWP AND SVP/FOUL CONNECTIONS ARE SUBJECT TO FINAL CONFIRMATION BY ARCHITECT



Drainage Strategy

Under SuDs guidance the first point of discharge for surface water is percolation via soakaway. It is proposed for the purposes of this strategy that infiltration is not viable.

NPPF guidelines require that surface water arising from a developed site should as far as practicable be managed in a sustainable manner to mimic the surface water flows arising from the site prior to development.

Surface Water:

A United Utilities Pre Planning Sewerage Enquiry has been submitted. This states that a flow rate of 10.0l/s can be utilized on the site. Furthermore, this can discharge into the combined sewerage system.

The proposed impermeable area is 6523m². Based on this infiltration rate and modelling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100year plus 40% climate change is **298.7m³**.

Attenuation to be provided via **GEO-CELLULAR ATTENUATION TANK 26.5.0x10.0x1.2m DEEP WITH 95% VOID RATIO**.

The flows will be restricted via a 143mm Hydrobrake Flow control device, with product code - MD-SHE-0143-1000-1200-1000.

It is proposed that the surface water will discharge into the United Utilities combined sewer passing through the site

Foul Water:

Foul water from the proposed new site will connect into the United Utilities combined sewer passing through the site, via the same connection as the surface water.



Proposed Catchment Area Plan (1:1000) = 6523m²

This drawing is copyright of Topping Engineers LTD and must not be copied or reproduced in any way without written consent.
DO NOT SCALE OFF THIS DRAWING

Notes:

1. This drawing is to be read in conjunction with all relevant architect's and engineer's drawings.
2. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

No.	Revision	Date	Drawn
Status: PLANNING			
 Aire House 12 Victoria Avenue Harrogate HG1 1ED t: 01423 522 293 Unit 223 Ducie House Ducie Street Manchester M1 2JW t: 0161 806 1701 www.topping-engineers.com			
Client: Lidl UK GmbH 			
Project: Lowry House 550 Mauldeth Road			
Drawing title: Drainage Strategy			
Drawn: TA	Chkd: AD	Date: June 2022	Scale: As Shown @ A1
Contract No: 22306	Org No: DR-C-0100	Revision:	P3